

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/005156

A. CLASSIFICATION OF SUBJECT MATTER

INV. C12N5/06 A61K47/48 A61K41/00 A61K49/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C12N A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	LEWIN M ET AL: "Tat peptide-derivatized magnetic nanoparticles allow in vivo tracking and recovery of progenitor cells" NATURE BIOTECHNOLOGY, NATURE PUBLISHING, US, vol. 18, April 2000 (2000-04), pages 410-414, XP002958421 ISSN: 1087-0156 abstract page 411 - page 412	1-30
X	WO 02/051985 A (KEELE UNIVERSITY; EL-HAJ, ALICIA, JENNIFER, HAFEEZA; DOBSON, JON, PAUL) 4 July 2002 (2002-07-04) page 4 claims 1-13	1-30

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

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"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

21 December 2005

Date of mailing of the international search report

06. 04. 2006

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Dullaart, A

INTERNATIONAL SEARCH REPORT

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PCT/GB2004/005156

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	<p>-----</p> <p>FROHLICH M W ET AL: "Ex Vivo Activation and Expansion of T Cells from the Peripheral Blood of Multiple Myeloma Patients Using the Xcellerate™ Process"</p> <p>BLOOD, W.B.SAUNDERS COMPANY, ORLANDO, FL, US, vol. 100, no. 11, 16 November 2002 (2002-11-16), XP002296916</p> <p>ISSN: 0006-4971</p> <p>abstract no. 5259</p> <p>the whole document</p>	1-30
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X	<p>-----</p> <p>WO 02/32397 A (VIRGINIA COMMONWEALTH UNIVERSITY INTELLECTUAL PROPERTY FOUNDATION; SIM)</p> <p>25 April 2002 (2002-04-25)</p> <p>page 42</p> <p>examples</p> <p>claims</p>	1-30
X,P	<p>-----</p> <p>WO 2004/000369 A (KEELE UNIVERSITY; EL HAJ, JENNIFER, ALICIA; DUBSON, JON, PAUL)</p> <p>31 December 2003 (2003-12-31)</p> <p>cited in the application</p> <p>the whole document</p> <p>-----</p>	1-30

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2004/005156

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 89-112 are directed to a method of treatment of the human/animal body, a search has been carried out, based on the alleged effects of the compound/composition.
2. ☒ Claims Nos.: 204-205
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-30 in part

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claims 89-112 are directed to a method of treatment of the human/animal body, a search has been carried out, based on the alleged effects of the compound/composition.

Continuation of Box II.2

Claims Nos.: 204-205

The present application contains 205 claims, of which 12 are independent. There is no clear distinction between the independent claims because of overlapping scope. There are so many claims, and they are drafted in such a way that the claims as a whole are not in compliance with the provisions of clarity and conciseness of Article 6 PCT, as it is particularly burdensome for a skilled person to establish the subject-matter for which protection is sought. The non-compliance with the substantive provisions is to such an extent, that the search was performed taking into consideration the non-compliance in determining the extent of the search (PCT Guidelines 9.19 and 9.25).

Claims 204-205 do not define the scope for which protection is sought in technical terms, which would allow them to be distinguishable over general ideas in the prior art. Therefore, these claims cannot be searched.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-30 in part

Selective activation of stem cells as claimed.

2. claims: 1-30 in part

Selective targeting of stem cells as claimed.

3. claims: 31-88

Magnetic manipulation of stem cells as claimed.

4. claims: 89-109,111 and 202

Method of treating a patient as claimed.

5. claim: 110

Method of inducing a therapeutic effect in a stem cell as claimed.

6. claim: 112

Method of targeting a therapeutically active agent to a stem cell as claimed.

7. claims: 113-143

Magnetic manipulation of a stem cell as claimed.

8. claims: 144-201

The manufacture of a therapy as claimed.

9. claim: 203

Method of targeting a therapeutically active agent to a cell as claimed.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/005156

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
W0 02051985	A	04-07-2002	CA	2432574 A1	04-07-2002
			CN	1483075 A	17-03-2004
			EP	1343872 A2	17-09-2003
			JP	2004520028 T	08-07-2004
			NZ	526533 A	30-09-2005

W0 0232397	A	25-04-2002	AU	2438702 A	29-04-2002
			EP	1333808 A2	13-08-2003
			JP	2004532802 T	28-10-2004

W0 2004000369	A	31-12-2003	AU	2003244806 A1	06-01-2004
			EP	1513560 A2	16-03-2005
			JP	2005529971 T	06-10-2005

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Authorized officer

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			JP	2004532802 T		28-10-2004

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